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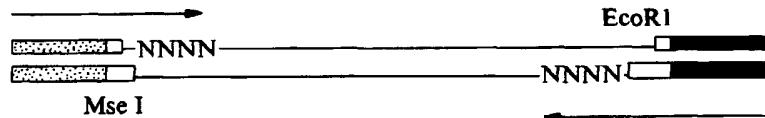
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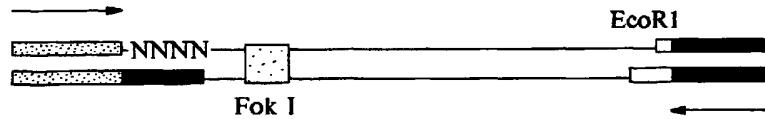
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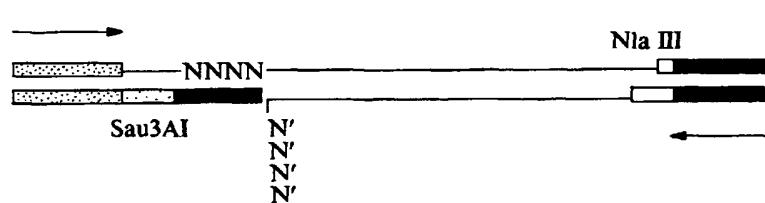
(54) Title: INDEXING POPULATIONS

I. Primer-directed (AFLP)II. Adapter-directed

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Class II



(57) **Abstract:** The invention relates to method and devices for indexing populations, among other things. Particular embodiments relate to methods for indexing population that can be carried out in homogeneous media, particularly methods in which indexing reactions can be carried out in homogeneous media and the products of the reactions can be determined without physically separating the products from the reaction. In these and other regards the invention further relates to methods and devices for indexing using real time monitoring and determinations based on reaction kinetics. In another further respect in these and other regards the invention relates to multiplexed indexing. And, in a still further specific in all these regards the invention relates to methods and devices for indexing a substantial fraction of all sub-populations of a given type. Specific embodiments relate to polynucleotides to expression profiling and to strand displacement indexing and reagent for strand displacement indexing.

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